

## Abstract

### Radiation Detector

The invention concerns a radiation detector for detecting radiation having a defined spectral sensitivity distribution (14) that exhibits a sensitivity maximum at a defined wavelength  $\lambda_0$ , wherein the radiation detector preferably contains a III-V semiconductor material and particularly preferably comprises at least one semiconductor chip (1) and at least one optical filter disposed after the semiconductor chip, the semiconductor chip containing at least one III-V semiconductor material and the optical filter absorbing radiation of a wavelength that is greater than the wavelength  $\lambda_0$  of the sensitivity maximum.

Fig. 1B